CLAIMS

- 1. A miniature optics, ball holding sheet comprising:
 - a) an array of rotatable mirrored balls embedded in said sheet;
 - b) said array disposed behind an optically transmissive surface; and
- c) each of said mirrored balls encapsulated in a surrounding medium of an optically transmissive fluid.
- 2. The apparatus of claim 1, wherein said sheet is a part of a solar concentrator.
- 3. The apparatus of claim 1, wherein said fluid is a lubricant.
- 4. The apparatus of claim 1, wherein said fluid is a dielectric.
- 5. A method for improving the rotatability of mirrored balls disposed in a miniature optics, ball holding sheet comprising the steps of:
 - a) providing said sheet with an optically transmissive surface; and
 - b) surrounding said mirrored balls with a shell of a lubricating fluid.
- 6. The method according to claim 5, wherein said sheet is a part of a solar concentrator.
- 7. The method according to claim 5, wherein said fluid is optically transmissive.
- 8. The method according to claim 5, wherein said fluid is a dielectric.
- 9. A method for fabricating lubricating receptacles containing encapsulated rotatable mirrored balls in an optically transmissive sheet by means of at least one infiltrating fluid, the method comprising the steps of:
- a) holding said mirrored balls somewhat rigidly captive in place in said sheet during and at the completion of its formation; and
- b) introducing said infiltrating fluid to expand said sheet and form small fluid-filled annular cavities surrounding said rotatable mirrored balls.
- 10. The method according to claim 9, wherein at least one eliminatable tray holds said mirrored balls in place in said sheet during its formation.

- 11. The method according to claim 9, wherein at least one pillar supports said sheet to enhance fluid access during the sheet infiltration and expansion process.
- 12. The method according to claim 9, wherein at least one of the fluids is optically transmissive.
- 13. The method according to claim 9, wherein at least one of the fluids is a dielectric.
- 14. The method according to claim 9, wherein the index of refraction of at least one of the fluids approximately matches that of said sheet.
- 15. The method according to claim 9, wherein the density of at least one of the fluids approximately matches that of said mirrored balls.
- 16. The method according to claim 9, wherein at least one of the fluids is lubricating.
- 17. The method according to claim 9, wherein at least one of the infiltrating fluids is vaporously removed.
- 18. The method according to claim 9, wherein the ratio of the volume of the material of said sheet to the volume of said mirrored balls is greater than a factor of 2.
- 19. The method according to claim 9, wherein at least one monolayer of said rotatable mirrored balls is encapsulated in said sheet.
- 20. The method according to claim 9, wherein a random dispersion of rotatable mirrored balls are encapsulated in said sheet.
- 21. The method according to claim 9, wherein the mirrored balls are pre-coated prior to being embedded in said sheet.
- 22. The method according to claim 9, wherein the mirrored balls are asymmetrically closer to the top of said sheet than to the bottom.
- 23. The method according to claim 9, wherein said sheet is constructed of laminar films.
- 24. The method according to claim 9, wherein zeolytes are in the fluid bath to help keep it clean and deionized.